CLAIMS

What is claimed is:

- 1. A pavement ramp edge maker comprising:
- a compaction member have a compaction surface for partially compacting paving material received thereby into a ramp; and
 - a coupling device for coupling the compaction member to a paving machine,

wherein the compaction surface is set at an edge angle such that a final angle of the ramp after compaction is less than or equal to approximately 45° relative to a surface upon which the ramp is formed.

- 2. The pavement edge maker of claim 1, wherein the coupling device includes a spring bias and vertical adjustment system including:
 - a mounting plate for mounting to a fixed structure of the paving machine;
- a threaded rod slidably coupled to the mounting plate and threadably coupled to the compaction member; and
- a spring bias for biasing the compaction member against upward movement, the spring bias including a spring mounted about the threaded rod and between the mounting plate and a bias adjustment member that is rigidly coupled to the threaded rod.
- 3. The pavement edge maker of claim 2, a distance between the mounting plate and the compaction member can be adjusted by turning of the threaded rod.

- 4. The pavement edge maker of claim 2, wherein a bias required to move the compaction member upwardly relative to the mounting plate can be adjusted by adjusting the position of the bias adjustment member along the threaded rod.
- 5. The pavement ramp edge maker of claim 1, wherein the compaction member further includes a paving material directing member for directing paving material toward the compaction surface.
- 6. The pavement ramp edge maker of claim 5, wherein the paving material directing member is a plate that is set at an angle of approximately 45° relative to the end plate.
- 7. The pavement ramp edge maker of claim 5, wherein the compaction member further includes a pair of support members coupled to the compaction surface and the paving material directing member.
- 8. The pavement edge maker of claim 7, wherein one of the support members extends in a direction of travel and includes a rounded leading edge adapted to engage the surface.
- 9. The pavement ramp edge maker of claim 5, further comprising a trailing directing member extending substantially in a direction of travel from a trailing edge of the paving material directing member.
- 10. The pavement ramp edge maker of claim 1, wherein the compaction member further includes

a trailing compaction surface extending substantially in a direction of travel from a trailing edge of the compaction surface.

- 11. The pavement ramp edge maker of claim 10, wherein the trailing edge between the compaction surface and the trailing compaction surface is rounded.
- 12. The pavement ramp edge maker of claim 1, wherein the compaction surface is set at a compaction angle relative to a direction of travel that is less than approximately 45°.
- 13. The pavement ramp edge maker of claim 13, wherein the edge angle and the compaction angle are substantially identical.
- 14. The pavement ramp edge maker of claim 13, wherein the edge angle and the compaction angle are approximately 35°.

- 15. A paving machine comprising:
 - a screed for distributing paving material during paving;
 - a vertically self-adjusting end gate coupled to the screed;

and

- a pavement ramp edge maker including:
- a compaction member including a compaction surface for partially compacting paving material received thereby to form a ramp; and
 - a coupling device for coupling the compaction member to the paving machine,

wherein the compaction surface is set at an edge angle such that a final angle of paving material after compaction is less than or equal to approximately 45° relative to a surface upon which the ramp is formed.

- 16. The paving machine of claim 16, wherein the edge angle is approximately 35° relative to horizontal.
- 17. The paving machine of claim 16, wherein the coupling device includes a spring bias and vertical adjustment system including:
 - a mounting plate for mounting to a fixed structure of the paving machine;
- a threaded rod slidably coupled to the mounting plate and threadably coupled to the compaction member; and
- a spring bias for biasing the compaction member against upward movement, the spring bias including a spring mounted about the threaded rod and between the mounting plate and a

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bias adjustment member that is threadably coupled to the threaded rod.

- 18. The paving machine of claim 19, a distance between the mounting plate and the compaction member can be adjusted by turning of the threaded rod.
- 19. The paving machine of claim 19, wherein a bias required to move the compaction member upwardly relative to the mounting plate can be adjusted by adjusting the position of the bias adjustment member along the threaded rod.
- 20. The paving machine of claim 16, wherein the compaction member further includes a paving material directing member for directing paving material toward the compaction surface.
- 21. The paving machine of claim 22, further comprising a trailing directing member extending substantially in a direction of travel from a trailing edge of the paving material directing member.
- 22. The paving machine of claim 16, wherein the compaction member further includes a trailing compaction surface extending substantially in a direction of travel from a trailing edge of the compaction surface.